

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #532370-
STP00-0630-00(010)

OFFICE Design Policy & Support

Bryan County

GDOT District 5 - Jesup

DATE 6/27/2014

Widening of SR144 EB from South of CR100 to
South of CR154

FROM  for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED LOCATION & DESIGN REPORT

Attached is the approved Location and Design Report with Notice of Location & Design Approval for the above subject project.

Attachment

DISTRIBUTION:

Glenn Bowman, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Genetha Rice-Singleton, Assistant Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Hiral Patel, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Kathy Zahul, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Paul Tanner, Asst. State Transportation Data Administrator
Attn: Systems & Classification Branch
Andy Casey, State Roadway Design Engineer
Attn: Troy Pittman, District Design Engineer
Jeff Fletcher, Location Bureau Chief
Karon Ivery, District Engineer
William Murphy, District Preconstruction Engineer
Maggie Yoder, District Planning & Programming Engineer
Joseph Capello, Area Engineer - D5, A5
Michelle Wright, Project Manager
BOARD MEMBER - 1st Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE	P.I. No. 532370, Bryan County STP00-0630-00(010) SR 144 Widening	OFFICE	Program Delivery
		DATE	June 18, 2014
FROM	Albert V. Shelby, III, State Program Delivery Engineer 		
TO	Brent A. Story, P.E., State Design Policy Engineer Attn: Dave Peters, State Conceptual Design Group Manager		
SUBJECT	532370 - Request for Location and Design Approval		

Description and Project Proposal: The project is located in Bryan County. The proposed length of the project is 4.93 miles. The project begins at Mile Post 11.31 (Timber Trail Rd. intersection) southeast to end at Mile Post 16.24 (just beyond County Road 154). The project will widen the existing two-lane 24' roadway to an urban four-lane section of roadway from MP 11.31 to MP 15.09, as well as a rural divided four-lane section of roadway from MP 15.09 to MP 16.24. The urban portion consists of 4-24' ^{12 ft.} travel lanes with 4' bike lanes divided by a 20' raised grass median. Shoulders in this portion are 12' wide with a concrete sidewalk. The rural portion consists of 4-24' ^{12 ft.} travel lanes divided with a 24' raised grass median. Shoulders are 10' wide, consisting of a 6.5' paved bike able shoulder. The project will include two proposed signalized intersections; the first at MP 11.36 (Timber Train Road), and the second at MP 13.29 (Port Royal Rd. and the new entrance to Sterling Woods Subdivision).

Concept Approval Date: Original Concept approved on February 19, 1993.

Concept Update: Revised Concept Dates: May 1, 2006, ^{FEBRUARY 4, 2002,}
October 17, 2008

Environmental Document Type, Approval Date & any Reevaluations: The Environmental Assessment – FONSI was approved ^{06/27/2014}. No reevaluations have been completed to date.

Temporary State Route Needed: No

Public Involvement:

- Public Information Open House:
 - The PIOH was held October 5, 2006 at the Richmond Hill City Hall located at 40 Richard Davis Drive Richmond Hill GA 30324.
 - A total of 102 people attended the PIOH. A total of 27 written comments were received and 9 verbal statements were taken. An additional 14 comments were received during the ten day comment period following the PIOH.

- Of the 102 attendees, 24 supported the project, 0 opposed, 16 were conditional and 62 were uncommitted.
- The major issues of the attendees were concerning the bicycle lane crossing over to the other side of the road at mid-project. Other major concerns were that the project ending location should be extended, and that a middle turn lane should be installed instead of the raised median, to allow for emergency vehicles.
- 3 public officials attended: Sallie Brewer, Bryan County Board of Education; Billy Reynolds, Richmond Hill Police Department; Richard R. Davis, Mayor, City of Richmond Hill

Consistency with Approved Planning: The design description as presented herein and submitted for approval is consistent with the approved Revised Concept Report.

Recommendations: Recommend that the location and design for the project be approved and the attached Notice be approved for advertising.

CONCUR: 
Director of Engineering

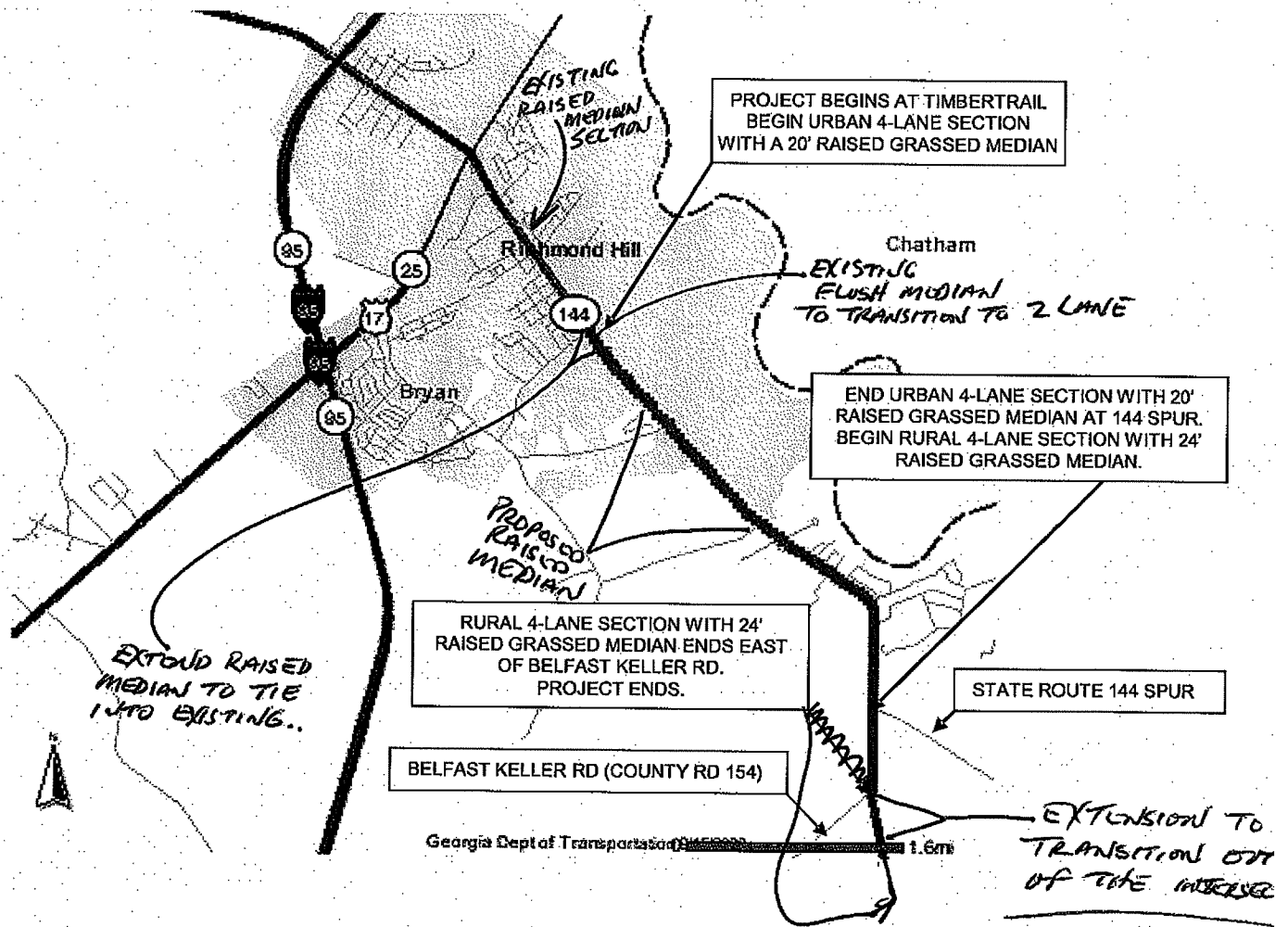
APPROVED:  6/26/14
Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: June 27, 2014
(To be entered by the State Conceptual Design Group Manager)

 
AVS:BWS:JMB

Attachments:

- Sketch Map
- Cost Estimate
- Notice of Location and Design Approval



**PROJECT LOCATION MAP
FOR
STP-0630(10), BRYAN COUNTY, P.I. NO. 532370
WIDENING AND RECONSTRUCTION OF SR 144**

PROJ. NO.: STP00-0630-00(010)

P.I. NO. 532370-

DATE: 1/17/2014

Base Construction Cost		\$	16,556,645.78
E & I	5%	\$	827,832.29
Construction Contingency		\$	-
Subtotal Construction Cost		\$	17,384,478.07
Liquid AC Adjustment (50 % cap)		\$	1,159,124.25
Total Construction Cost		\$	18,543,602.32

DETAILED COST ESTIMATE



Job: 532370-

JOB NUMBER 532370-

FED/STATE PROJECT NUMBER

SPEC YEAR: 01

DESCRIPTION: SR 144 EB FROM S OF CR 100 TO S OF CR 154

ITEMS FOR JOB 532370-

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0205	150-1000	1.000	LS	\$500,000.00000	TRAFFIC CONTROL - 532370-	\$500,000.00
0240	153-1300	1.000	EA	\$86,646.85885	FIELD ENGINEERS OFFICE TP 3	\$86,646.86
0250	206-0002	139270.000	CY	\$4.29000	BORROW EXCAV, INCL MATL	\$597,468.30
0190	207-0203	4474.000	CY	\$59.95631	FOUND BK FILL MATL, TP II	\$268,244.53
0249	210-0100	1.000	LS	\$4,000,000.00000	GRADING COMPLETE - 532370-	\$4,000,000.00
0040	310-5060	8607.000	SY	\$11.49000	GR AGGR BS CRS 6IN INCL MATL INFLATION 1.9% ABOVE 2011 EST	\$98,894.43
0045	310-5080	147670.000	SY	\$13.41000	GR AGGR BS CRS 8IN INCL MATL	\$1,980,254.70
0047	318-3000	486.000	TN	\$6.52673	AGGR SURF CRS	\$3,171.99
0025	402-3121	32488.000	TN	\$46.34878	RECYL AC 25MM SP, GP 1/2, BM&HL	\$1,505,779.16
0024	402-3130	18399.000	TN	\$76.77780	RECYL AC 12.5MM SP, GP 2, BM&HL	\$1,412,634.74
0030	402-3190	17192.000	TN	\$58.05312	RECYL AC 19 MM SP, GP 1 OR 2, INC BM&HL	\$998,049.24
0035	413-1000	14995.000	GL	\$13.25385	BITUM TACK COAT	\$198,741.48
0048	432-0206	6445.000	SY	\$1.86000	MILL ASPH CONC PVM/ 1.50" DEP	\$11,987.70
0260	433-1100	543.340	SY	\$138.89000	REF CONC APPR SL/INCL CURB	\$75,464.49
0265	441-0016	352.000	SY	\$10.35794	DRIVEWAY CONCRETE, 6 IN TK	\$3,645.99
0010	441-0104	23009.000	SY	\$20.53635	CONC SIDEWALK, 4 IN	\$472,520.88
0270	441-0740	11036.680	SY	\$24.60591	CONC MEDIAN, 4 IN	\$271,567.55
0210	441-6222	41516.000	LF	\$9.54552	CONC CURB & GUTTER/ 8"X30"TP2	\$396,291.81
0215	441-6740	45591.000	LF	\$10.53477	CONC CURB & GUTTER/ 8"X30" TP7	\$480,290.70
0280	456-2015	2.480	GLM	\$1,290.52637	INDENT. RUMB. STRIPS - GRND-IN-PL (SKIP)	\$3,200.51
0195	500-3800	97.870	CY	\$891.91833	CL A CONC, INCL REINF STEEL	\$87,292.05
0049	500-9999	764.000	CY	\$174.92031	CL B CONC, BASE OR PVM/ WIDEN	\$133,639.12
0005	543-9000	1.000	LS	\$993,600.00000	CONSTR OF BRIDGE COMPLETE - \$90 PER SQ FT 120X92	\$993,600.00
0120	550-1180	14326.000	LF	\$28.87596	STM DR PIPE 18", H 1-10	\$413,677.00
0125	550-1240	6200.000	LF	\$35.70893	STM DR PIPE 24", H 1-10	\$221,395.37
0130	550-1300	4740.000	LF	\$54.88939	STM DR PIPE 30", H 1-10	\$260,175.71
0135	550-1360	2764.000	LF	\$49.03969	STM DR PIPE 36", H 1-10	\$135,545.70
0140	550-1420	268.000	LF	\$74.54443	STM DR PIPE 42", H 1-10	\$19,977.91
0145	550-1480	128.000	LF	\$114.28000	STM DR PIPE 48", H 1-10	\$14,627.84
0150	550-1540	128.000	LF	\$142.30000	STM DR PIPE 54", H 1-10	\$18,214.40
0160	550-2180	458.000	LF	\$29.14436	SIDE DR PIPE 18", H 1-10	\$13,348.12
0055	550-4118	20.000	EA	\$480.52000	FLARED END SECT 18 IN, SIDE DR	\$9,610.40
0060	550-4218	8.000	EA	\$521.24401	FLARED END SECT 18 IN, ST DR	\$4,169.95
0065	550-4224	4.000	EA	\$662.46144	FLARED END SECT 24 IN, ST DR	\$2,649.85
0070	550-4230	2.000	EA	\$692.09134	FLARED END SECT 30 IN, ST DR	\$1,384.18
0075	550-4236	2.000	EA	\$1,062.20064	FLARED END SECT 36 IN, ST DR	\$2,124.40
0080	550-4242	1.000	EA	\$1,419.76593	FLARED END SECT 42 IN, ST DR	\$1,419.77
0275	634-1200	269.000	EA	\$83.88452	RIGHT OF WAY MARKERS	\$22,564.94
0220	641-1100	60.000	LF	\$77.27440	GUARDRAIL, TP T	\$4,636.46
0225	641-1200	557.000	LF	\$16.93275	GUARDRAIL, TP W	\$9,431.54
0230	641-5001	2.000	EA	\$778.11588	GUARDRAIL ANCHORAGE, TP 1	\$1,556.23
0235	641-5012	2.000	EA	\$2,044.07589	GUARDRAIL ANCHORAGE, TP 12	\$4,088.15
0085	668-1100	168.000	EA	\$2,111.64469	CATCH BASIN, GP 1	\$354,756.31
0165	668-1110	43.170	LF	\$183.95481	CATCH BASIN, GP 1, ADDL DEPTH	\$7,941.33
0090	668-1200	2.000	EA	\$2,982.21000	CATCH BASIN, GP 2	\$5,964.42

DETAILED COST ESTIMATE



Job: 532370-

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0170	668-1210	5.110	LF	\$274.17000	CATCH BASIN, GP 2, ADDL DEPTH	\$1,401.01
0095	668-2100	11.000	EA	\$1,649.59405	DROP INLET, GP 1	\$18,145.53
0175	668-2110	21.900	LF	\$166.34790	DROP INLET, GP 1, ADDL DEPTH	\$3,643.02
0100	668-2200	5.000	EA	\$3,025.70000	DROP INLET, GP 2	\$15,128.50
0180	668-2210	5.560	LF	\$348.89000	DROP INLET, GP 2, ADDL DEPTH	\$1,939.83
0105	668-4300	3.000	EA	\$1,739.81610	STORM SEW MANHOLE, TP 1	\$5,219.45
0185	668-4311	5.380	LF	\$183.28357	ST SEW MANHOLE, TP 1, A DEP, CL 1	\$986.07
0110	668-5000	14.000	EA	\$1,763.31867	JUNCTION BOX	\$24,686.46
0115	668-7018	1.000	EA	\$1,450.00000	DRAIN INLET, 18 IN	\$1,450.00
SUBTOTAL FOR :						\$16,181,246.08

COST GROUP FOR JOB 532370-

LINE NUMBER	UNIT	CALCULATION RULE	QUANTITY	PRICE	COST GROUP ID	DESCRIPTION	AMOUNT
00000005	SY	NORM	19274.000	\$19.48	EROC	EROSION CONTROL (SY)	\$375,399.70
SUBTOTAL:							\$375,399.70

TOTALS FOR JOB 532370-

ITEMS COST:	\$16,181,246.08
COST GROUP COST:	\$375,399.70
ESTIMATED COST:	\$16,556,645.78
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.05
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$17,384,478.07

PROJ. NO.	STP00-0630-00(010)
P.I. NO.	532370-
DATE	1/17/2014

CALL NO.

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Jan-14	\$ 3.240
DIESEL		\$ 3.828
LIQUID AC		\$ 557.00

Link to Fuel and AC Index:

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)]xTMTxAPL

Asphalt

Price Adjustment (PA)				1137600.09	\$	1,137,600.09
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	891.20		
Monthly Asphalt Cement Price month project let (APL)			\$	557.00		
Total Monthly Tonnage of asphalt cement (TMT)				3403.95		

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm	18399	5.0%	919.95
9.5 mm SP		5.0%	0
25 mm SP	32488	5.0%	1624.4
19 mm SP	17192	5.0%	859.6
	68079		3403.95

BITUMINOUS TACK COAT

Price Adjustment (PA)			\$	21,524.16	\$	21,524.16
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	891.20		
Monthly Asphalt Cement Price month project let (APL)			\$	557.00		
Total Monthly Tonnage of asphalt cement (TMT)				64.40503833		

Bitum Tack

Gals	gals/ton	tons
14995	232.8234	64.4050383

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				0	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	891.20		
Monthly Asphalt Cement Price month project let (APL)			\$	557.00		
Total Monthly Tonnage of asphalt cement (TMT)				0		

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.		0.20	0	232.8234	0
Double Surf. Trmt.		0.44	0	232.8234	0
Triple Surf. Trmt		0.71	0	232.8234	0

TOTAL LIQUID AC ADJUSTMENT	\$	1,159,124.25
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NOTICE OF LOCATION AND DESIGN APPROVAL

P. I. NUMBER: 532370-

Project No. STP00-0630-00(010)

Notice is hereby given in compliance with Georgia Code 22-2-109 and 32-3-5 that the Georgia Department of Transportation has approved the Location and Design of this project.

Date of Location Approval: June 27, 2014

The project consists of widening along State Route 144 from Timber Trail Road/CR 100 to CR 154, within the Georgia Militia District 20, located in Bryan County. The project proposes to widen SR144 from a two lane to a four lane divided highway, and for the installation of two signalized intersections within the project limits. Drawings, maps and plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Joseph Capello, District 5, Area 5 Engineer
630 West Boundary Street
Savannah, GA 31401
Phone: 912-651-2144
email: jcapello@dot.ga.gov

Any interested party may obtain a copy of the drawings, maps or plats, or portions thereof, by paying a nominal fee and requesting in writing to:

Will Murphy, District 5 Preconstruction Engineer
P.O. Box 610
Jesup, GA 31598
Phone: 912-427-5715
email: wmurphy@dot.ga.gov

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Number as noted at the top of this notice.